

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/083,932	02/26/2002	Richard L. Gray	AME-001	8342	
22888	7590 12/30/2003		EXAM	EXAMINER	
BEVER HOFFMAN & HARMS, LLP TRI-VALLEY OFFICE			ALEMU, EPHREM		
	NNON BLVD., BLDG. G		ART UNIT	PAPER NUMBER	
LIVERMORE	E, CA 94550		2821		
			DATE MAIL ED: 12/30/2001	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

•							
<u>. </u>		Application No.	Applicant(s)				
		10/083,932	GRAY, RICHARD L.				
	Office Action Summary	Examiner	Art Unit				
	·	Ephrem Alemu	2821				
÷ .	Th MAILING DATE of this communication						
Period fo		,,					
THE - Exte after - If the - If NC - Failu - Any	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory pure to reply within the set or extended period for reply will, by steply received by the Office later than three months after the reply attent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a on. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MC statute, cause the application to become a	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on. ,			
1)🛛	Responsive to communication(s) filed on :	17 October 2003.					
2a)□	This action is FINAL . 2b)⊠ .	This action is non-final.					
3)□	Since this application is in condition for all closed in accordance with the practice und	owance except for formal ma		s			
Dispositi	on of Claims	,					
_		ting in the application					
	Claim(s) <u>1-13,31,32,38 and 39</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.						
	\boxtimes Claim(s) $9-13,31,32,38$ and 39 is/are allowed.						
	☑ Claim(s) <u>3=13,51,52,38 and 39</u> is/are allowed. ☑ Claim(s) <u>1 and 2</u> is/are rejected.						
	Claim(s) are subject to restriction a	nd/or election requirement.					
	on Papers	·					
9)[The specification is objected to by the Exar	miner.					
10) 🔲	The drawing(s) filed on is/are: a)	accepted or b) ☐ objected to	by the Examiner.				
	Applicant may not request that any objection to	the drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the co		·	d).			
11) 🗌	The oath or declaration is objected to by th	e Examiner. Note the attache	d Office Action or form PTO-152.				
Priority u	nder 35 U.S.C. §§ 119 and 120						
a)[Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority documes. Certified copies of the priority documes.	nents have been received.	, .,				
	 Copies of the certified copies of the application from the International Bu 	priority documents have beer reau (PCT Rule 17.2(a)).	received in this National Stage				
13)∐ A sii 37	ee the attached detailed Office action for a cknowledgment is made of a claim for domnce a specific reference was included in the CFR 1.78. The translation of the foreign language	nestic priority under 35 U.S.C e first sentence of the specific	§ 119(e) (to a provisional applicati ation or in an Application Data She	ion) eet.			
14)□ A	cknowledgment is made of a claim for dom ference was included in the first sentence of	estic priority under 35 U.S.C.	§§ 120 and/or 121 since a specific	3 3.			
A 44 4	(4)						
Attachment L) Notice	(s) of References Cited (PTO-892)	4) \(\sum_{\text{ln4-m}} \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Summary (DTO 442) Dance No.(-)				
	e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)				
	nation Disclosure Statement(s) (PTO-1449) Paper No						
Patent and Tra	idemark Office						

Application/Control Number: 10/083,932

Art Unit: 2821

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1 and 2 are rejected under 35 U.S.C. 102(e) as being anticipated by Wilhite (US 6,253,066).

Re claims 1 and 2, Wilhite discloses an apparatus and method to produce a plurality of output signals (i.e., an apparatus and method of powering a cold cathode fluorescent light (CCFL) circuit) Fig. 5, the method including: determining a frequency provided to power the quadrature generator (i.e. CCFL circuit) based on a duty cycle (i.e., 50 %) of a driving waveform to the quadrature generator (i.e., CCFL circuit) (Fig. 5, 405, 415).

Response to Arguments

3. Applicant's arguments, see pages 9 and 10, filed 10-17-03, with respect to the rejections of claims 1-8 and 31 under 102(e) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn with regard to claims 3-8 and 31. However, upon further consideration, a new ground of rejection is made in view of Wilhite et al. (US 6,253,066) with regard to claims 1 and 2.

Application/Control Number: 10/083,932

Art Unit: 2821

Allowable Subject Matter

Page 3

- 4. Claims 9-13, 31, 32, 38 and 39 are allowed.
- 5. Claims 3-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The prior art of record fail to teach or suggest, alone or in combination, the following
limitations: "wherein determining frequency includes sensing a voltage of the driving waveform
at a first node" as claimed in claim 3; "sensing a voltage at a second node that is proportional to
a CCFL current; and generating a second DC signal that is proportional to a time-averaged
voltage at the second node, wherein the second DC signal is used in determining the frequency"
as claimed in claim 9; "selectively resetting a capacitance of the capacitor to zero at the
beginning of every dimming cycle of the CCFL circuit, thereby providing a soft start on the
line" as claimed in claim 31; "switching to a second current source, thereby limiting the voltage
increase to a second predetermined amount based on the second current source and the
capacitor" as claimed in claim 32; and "using a first and second current sources, respectively, to
maintain the first and second predetermined values during a first and second transition of the
input signal" in a manner claimed in claim 38.

Claims 4-8 are objected to as being directly or indirectly dependent over rejected dependent claim 3.

Claims 10-13 and 39 are allowed as being dependant over allowed claims 9 and 38.

Application/Control Number: 10/083,932

Art Unit: 2821

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Wells et al. (US 6,400,096); Henry (US 6,198,234); and Noma et al. (US 6,184,631);

also teach similar inventive subject matter.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ephrem Alemu whose telephone number is (703) 306-5983. The

examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don K Wong can be reached on (703) 308-4856. The fax phone numbers for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

EA 12-28-03 Might 12/28/03

Page 4